

86-2-43/45

## Some Problems of Rocketry (cont.)

In Fig. 1 the author gives a simplified schematic drawing of a three-stage rocket in which the location of separate parts is shown. In Fig. 2 he gives a schematic diagram of two types of liquid fuel rocket engines and explains how they operate and what their performance is when different types of fuel are used. Two tables showing the specific thrusts developed by fuels and oxidizers presently used as well as by those to be used in the future are given. After discussing the problem of the thrusts required, duration of engine operation, and the fuel and oxidizer containers, the author examines the possibilities of making the weight of the rocket structure, of the engine, and of all elements of equipment and control as small as possible. The author also explains how to find the  $\beta$  factor which characterizes the perfection of rocket design as a whole and then how to compute the maximum or theoretical energy  $E$ , the energy spent on the work done by the resistance along the flight trajectory  $E_c$ , the energy of the remaining mass of rocket  $E_d$ , the energy spent on the lifting of the rocket  $E_h$ , and the true kinetic energy  $E_k$ . A diagram in Fig. 3 shows the dependence of the maximum theoretical velocity at the end of the active flight lag on the mean speed of the exhaust gases leaving the nozzle

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Some Problems of Rocketry (cont.)

(for different  $\beta$ ) and a diagram showing the dependence of the maximum theoretical velocity at the end of the active flight lag on the weight of the fuel and oxidizer. Fig. 5 shows a three-stage rocket with a suggested weight of 7000 tons. The author briefly discusses the minimum energy consuming flight trajectories of interplanetary ships. He examines the orbit of Mars which is inclined in relation to the ecliptic by 1.85° and which will require the minimum of energy. In Fig. 6 the distances from the sun to characteristic points on the orbits of the earth and Mars are given.

AVAILABLE: Library of Congress

Card 3/3

MEL'KUMOV, T., general-major inzhenerno-tehnicheskoy sluzhby zasluzhennyy deyatel' nauki i tekhniki, prof., doktor tekhnicheskikh nauk

Soviet science is in the service of the people. Komm. Vooruzh.  
Sil 2 no.19:54-56 O '61. (MIRA 14:9)  
(Research, Industrial)

LENIN, I.M., doktor tekhn. nauk, prof.; MALASHKIN, O.M., kand. tekhn. nauk; SAMOL', G.I., kand. tekhn. nauk; MEL'KUMOV, T.M., doktor tekhn. nauk, prof.; NAKHIMSON, V.A., red. izd-va; YEGORKINA, L.I., red.izd-va; EL'KIND, V.D., tekhn. red.

[Fuel feed systems of motor-vehicle and tractor engines]  
Sistemy toplivopodachi avtomobil'nykh i traktornykh dvigatelei. Moskva, Mashgiz, 1963. 312 p. (MIRA 16:12)  
(Motor vehicles—Fuel systems)  
(Tractors—Fuel systems)

VOROB'YEV, B.N.; SOKOL'SKIY, V.N.; MEL'KUMOV, T.M., otv. red.;  
PROKOF'YEVA, N.B., red.izd-va; ASTAF'YEV, G.A., tekhn.  
red.

[Pioneers in rocket engineering: Kibal'chich, Tsiolkovskii,  
TSander, Kondratiuk; selected works] Pionery raketnoi tekhniki;  
Kibal'chich, Tsiolkovskii, TSander, Kondratiuk; izbrannye trudy. Moskva, Izd-vo "Nauka," 1964. 670 p.  
(MIRA 17:4)

1. Akademiya nauk SSSR. Institut istorii yestestvoznaniya i  
tekhniki.

MEL'KUMOVA, A. S.

Mel'kumova, A. S. "Plastic operation in gaping of brain ventricles after being injured by a bullet," Sbornik nauch, rabot, posvyashch, 70-letiyu prof. Seppa, Moscow, 1948, p. 291-98

SO: U-3264, 10 April 1953, (Letopis 'nykh Stately, No. 3, 1949

MEL'KUMOVA, A.S.; STREL'TSOVA, N.I.

Data on the pathogenesis and pathogenic therapy of hypertonia. Zhur.  
nevr.i psikh. 53 no.12:942-950 D '53. (MLRA 6:12)

1. Nevrologicheskoye otdeleniye polikliniki No.3 (Riga). (Hypertension)

MEL'KUMOVA, A. S., Doc Med Sci -- (diss) "Hernia of the Cerebral  
Ventricles Following Gunshot Craniocerebral Wounds. Pathogenesis,  
Clinic, Diagnosis, Surgical Treatment, and Remote Results of Treat-  
ment from Seven to 12 Years." Mos, 1957. 30 pp (1st Mos Order  
of Lenin Medical Inst im I. M. Sechenov), 200 copies (KL, 48-57,  
109)

- 61 -

MEL'KUMOVA, A.S. (Moskva)

Clinical aspects of a special form of vibration disease. Gig. truda  
i prof. zab. 4 no.5:41-45 My '60. (MIRA 13:9)

1. Sanitarno-gigiyenicheskiy institut imeni F.F. Erismana.  
(VIBRATION—PHYSIOLOGICAL EFFECT)  
(NERVOUS SYSTEM—DISEASES)

MEL'KUMOVA, A.S.

Cerebral form of vibration sickness caused by general high-frequency vertical vibration. Uch. zap. Mosk.nauch-issl.inst.san. i gig. no.7: 26-36 '69. (MIRA 15:2)

(VIBRATION-PHYSIOLOGICAL EFFECT)

SHPIL'BERG, P.I.; MEL'KUMOVA, A.S.

Dynamic clinical electroencephalographic studies of vibration sickness  
caused by general vibration. Uch. zap. Mosk.nauch-issl.inst.san. 1  
gig. no.7:45-51 '60. (MIR 15:2)  
(ELECTROENCEPHALOGRAPHY)  
(VIBRATION-PHYSIOLOGICAL EFFECT)

MEL'KUMOVA, A.S.; BYLOV, I.S.; PUSHKINA, N.N.

Clinical aspects of occupational poisoning of thio rubber  
workers. Uch. zap. Mosk. nauch.-issl. inst. san. i gig. no.9:  
90-94'61 (MIRA 16:11)

\*

MEL'KUMOVA, A.S.; KOROLEVA, V.A.

Action of ultrasound in conjunction with high-frequency  
noises on the central nervous system. Uch. zap. Mosk. nauch.-  
issl. inst. san. i gig. no.11:29-35 '63.  
(MIRA 17:1)

MEL'KUMOVA, A.S., prof.; RUMYANTSEV, G.I., st. nauchn. sotr.;  
SHITSKOVA, A.P., otv. red.

[Vibration sickness in concreters and measures for its control; manual for occupational disease specialists, neuropathologists, hygienists, and physicians of poly-clinics and medical and public health centers] Vibratsion-naia bolez'n' betonshchikov i mery bor'by s neiu; posobie dlja proffpatologov, nevropatologov, vrachei-gigienistov, vrachei poliklinik i mediko-sanitarnykh chastei. Moskva, Mosk. nauchno-issl. in-t gigienny, 1965. 102 p.  
(MIRA 18:10)

(N) L 11776-66 EWT(1)/FS(v)-3 SCTB DD

SOURCE CODE: UR/0391/66/000/001/0021/0025

ACC NR: AP6002697

AUTHOR: Mel'kumova, A. S. (Moscow); Pushkina, N. N. (Moscow)

ORG: Institute of Hygiene im. F. F. Erismann (Institut gigiyeny)

TITLE: Clinical and biochemical data concerning the effect of whole-body and local high-frequency vibration on the metabolism of some vitamins

SOURCE: Gigiyena truda i professional'nyye zabolеваниya, no. 1, 1966, 21-25

TOPIC TAGS: vibration, vibration effect, biologic metabolism, human physiology

ABSTRACT: The authors studied the vitamin metabolism (vitamins C, B<sub>1</sub>, B<sub>2</sub>, PP, and provitamin A) of 684 workers exposed to industrial vibration in reinforced-concrete component-casting plants. Of this number, 634 were exposed to whole-body vibration (50-100 cps, 0.05-1.3 mm amplitude), and 50 were exposed to noise associated with the vibration (103-108 db). Vitamin metabolisms were monitored by means of blood tests and urine samples, and nutritional data were collected for all subjects. In the first series of tests, which began in 1957, the blood vitamin C content was analyzed in 407 subjects exposed to vibration and 20 control subjects exposed to noise only. The results of this series are found in Table 1. In the second series,

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UDC: 612.015.6.014.45+613.644:612.015.6

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ACC NR: AP6002697

Table 1. Blood vitamin C content

Work group		Num- ber of sub- jects	Blood vitamin C content (mg%)	
			M <sub>1m</sub>	t <sub>p</sub>
Cement workers exposed to vibration	Healthy subjects	240	0.51±0.009	0.74 0.05
	Previbration-sickness group	27	0.40±0.022	4.2 0.001
	Patients with the 1st stage of cerebral vibration sickness	140	0.27±0.008	19.0 0.001
Subjects exposed to noise	Control	20	0.50±0.01	—
	Total	427	—	—

clinical changes and biochemical variations in the blood vitamin C, B<sub>1</sub>, and pyruvic acid content of patients with cerebral and peripheral forms of vibration sickness were surveyed between 1959 and 1963. The results are shown in Table 2.  
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ACC NR: AF6002697

Table 2. Blood vitamin C, B<sub>1</sub>, and pyruvic acid content

Type of vibration	Condition of subjects	Vitamin C (mg%)		Vitamin B <sub>1</sub> (mg%)		Pyruvic acid	
		M±m	t <sub>p</sub>	M±m	t <sub>p</sub>	M±m	t <sub>p</sub>
High-frequency vertical and local leg vibration	Stable, residual cerebral form of vibration sickness	33 0.16±0.01	9.2 <0.001	11.6±0.38	7.4 <0.001	1.27±0.04	5.0 <0.001
Medium- and high-frequency hand vibration	I-II and II stages of hand polyneuritis	13 0.39±0.09	1.5 >0.05	16.1±0.12	3.8 <0.001	1.14±0.05	2.0 >0.05
Control	Healthy	20 0.54±0.04		20.3±1.10		1.02±0.03	

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ACC NR: AP6002697

In the third series, it was statistically demonstrated that the vitamin level (C, B<sub>1</sub>, B<sub>2</sub>, and PP) was lowered in workers exposed to varying intensities of vibration compared to those exposed only to noise. Vitamin deficits were most noticeable in those subjects stricken with vibration sickness. These tests indicate that personnel exposed to vibration have increased vitamin requirements, and the authors suggest that prophylactic vitaminizing be instituted in situations involving the exposure of workers to vibration. Orig. art. has: 2 tables. [CD]

SUB CODE: 06/ SUBM DATE: 06Jan64/ ORIG REF: 016/ OTH REF: 005/

ATD PRESS: 4/78

HU  
Card 4/4

SAGALOVICH, B. M.; MELKUMOVA, G. G.; GAFUROV, R. A.

Absorptive capacity of the tonsils in inflammation. Vest. otorin.  
no.3:23-27 '62. (MIRA 15:6)

1. Iz patofiziologicheskoy laboratorii (zav. - kandidat meditsinskikh nauk B. M. Sagalovich) Gosudarstvennogo nauchno-issledovatel'skogo instituta bolezney ukha, gorla i nosa Ministerstva zdravookhraneniya RSFSR (dir. - prof. N. A. Bobrovskiy), Moskva.

(TONSILS--DISEASES)

MELKUMOVA, G.G. (Moskva)

Development of acidosis in a focus of normergic and hyperergic  
inflammation. Pat.fiziol.i eksp.terap. 6 no.2:31-35 Mr-Ap '62.  
(MIRA 15:8)

l. Iz otdela patofiziologii (zav. - kand.med.nauk B.M.Sagalovich)  
Gosudarstvennogo nauchno-issledovatel'skogo instituta ukha, gorla i  
nosa (dir. - zasluzhennyj deyatel' nauki prof. V.N.Trutnev [deceased]),  
Ministerstva zdravookhraneniya RSFSR.  
(INFLAMMATION) (ACIDOSIS)

MELKUM'VA, G. G.

"Data Relating to the Investigation of the Nervous Mechanisms of Interruptions of Diuresis in Sublimat Poisoning." Cardiol Sci, Inst of General and Experimental Pathology, Acad Med Sci USSR, [Moscow], 1953. (RZhBiol, No 1, Sep 54)

SO: Sum 432, 29 Mar 55

MELKUMOVA, G. G.

"The Problem of the Use of Kidney Decapsulation in Acute Mercury Poisoning  
p. 209

Problema Reaktivnosti v Patologii, Medgiz, Moscow 1954, 344pp.

MELKUMOVA, G.G. (Moskva)

A little-studied function of the cecum. Pat.fiziol. i ekspl.  
terap. 3 no.2:69-70 Mr-Ap '59. (MIFI 12:6)

1. Iz otdela obshchey i eksperimental'noy patologii (zav. -  
akademik A.D.Speranskiy) Instituta normal'noy i patologiche-  
skoy fiziologii AN SSSR.

(CECUM, eff. of excis.

causing dystrophy in rabbits (Rus))

(NUTRITION DISORDERS, exper.

induced by excis. of cecum in rabbits (Rus))

MELKUMOVA, G.G.

Intravital determination of tissue pH. Biul.eksp.biol. i med. 48  
no.10:114-117 O '59. (MIRA 13:2)

1. Iz otdela patologicheskoy fiziologii (zav. - kand.med.nauk  
B.M. Sagalovich) Gosudarstvennogo nauchno-issledovatel'skogo insti-  
tuta ukha, gorla i nosa Ministerstva zdravookhraneniya RSFSR (dir. -  
zasluzhennyy deyatel' nauki prof. V.K. Trutnev), Moskva. Predstavlena  
deystvitel'nym chленом AMN SSSR S.Ye. Severinym.  
(HYDROGEN ION CONCENTRATION)

MELKUMOVA, G. G.

Influence of cooling on the development of experimental otitis media.  
Vest. otorin. no. 3:26-32 '61. (MIRA 14:12)

1. Iz otdela patofiziologii (zav. - kandidat meditsinskikh nauk  
B. M. Sagalovich) Gosudarstvennogo nauchno-issledovatel'skogo instituta  
ukha, gorla i ncsa Ministerstva zdravookhraneniya RSFSR (dir. -  
zasluzhennyj deyatel' nauki prof. V. K. Trutnev[deceased], Moskva).

(TYMPANIC MEMBRANE--DISEASES)  
(COLD--PHYSIOLOGICAL EFFECT)

SAGALOVICH, B.M.; MELKUMOVA, G.G.

Absorption of substances of a protein nature from the tonsils  
and peritonsillar area. Vest. otorin. 23 no.1:64-68 Ja-F '61.  
(MIRA 14:2)

1. Iz otdela patofiziologii (zav. - kand.med.nauk B.M.  
Sagalovich) Gosudarstvennogo nauchno-issledovatel'skogo  
instituta ukha, gorla i nosa (dir. - zasluzhennyy deyatel'  
nauki prof. V.K. Trutnev [deceased]), Moskva.  
(TONSILS) (PROTEIN METABOLISM)

SAGALOVICH, B.M.; MELKUMOVA, G.G.

Significance of the specific sensitization of the body in the process  
of protein resorption from tissues. Biul. eksp. biol. i med. 53 no 4:  
(MIRA 15:4)  
84-87 Ap '62.

1. Iz otdela patologicheskoy fiziologii (zav. - kand.med.nauk B.M.  
Sagalovich) Nauchno-issledovatel'skogo instituta ukha, gorla i  
nosa (dir. - zasluzhennyy deyatel' nauki prof. V.K.Trutnev [deceased])  
Ministerstva zdravookhraneniya RSFSR, Moskva. Predstavlena deystvitel'nym  
chlenom AMN SSSR N.N.Zhukovym-Verezhnikovym,  
(ALLERGY) (BLOOD PROTEINS)

GAYDINA, G.A.; MELKUMOVA, G.G. (Moskva)

Function of the kidneys in mercuric chloride poisoning before  
and after their denervation. Pat.fiziol. i eksp.terap. 7 no.2:  
41-46 Mr-Ap'63.  
(MIRA 16:10)

1. Iz laboratoriis eksperimental'noy patologii nervnoy sistemy  
(zav. - prof. S.I. Frankshteyn) Instituta normal'noy i pato-  
logicheskoy fiziologii (dir. - deystvitel'nyy chlen AMN SSSR  
prof. V.V. Parin ) AMN SSSR.

(MERCURY--TOXICOLOGY) (KIDNEYS--INNERVATION)  
(KIDNEY FUNCTION TESTS)

L 3622-65  
ACCESSION NO: AP5010326

UP/0217/64/009/004/0477/0483

23

B

AUTHOR: Sagalovich, B. M.; Melkumova, G. G.

TITLE: Propagation of ultrasonic oscillations which cause aural sensations through the skull

SOURCE: Biofizika, v. 9, no. 4, 1964, 477-483

TOPIC TAGS: acoustic biologic effect, ultrasonic vibration, ultrasonic effect, ultrasonic radiation, biophysics

Abstract: Ultrasonic oscillations of a frequency which allows aural reception spread radially in all directions from the place of contact through the bones of the skull; their velocity and intensity, however, differ. The velocity depends on the density of bone sutures and on the properties of various areas of the skull. The intensity decreases as the vibrations pass through areas of bone sutures and where there is a high density of air-bearing tissue. Definite patterns in intensity and velocity of propagation were observed for the various bones of the skull and for the parts of each bone. Orig. art. has 1 figure and 2 tables.

ASSOCIATION: Gosudarstvennyy nauchno-issledovatel'skiy institut ukha, gorla i nosa Ministerstva zdravookhraneniya RSFSR, Moscow. (State Scientific Research Institute

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L 36323-65  
ACCESSION NR: AP5010326

of the Ear, Nose, and Throat, Ministry of Health RSFSR)

SUBMITTED: 24Apr63

ENCL: 00

SUB CODE: LS, GP

NO REF Sov: 003

OTHER: CCO

JPE3

Card 272/40

SAGALOVICH, B.M.; MELKUMOVA, G.G.; GAFUROV, R.A.

Significance of streptococci in the formation of the barrier function  
in inflammation. Zhur. mikrobiol., epid. i immun. 41 no. 9:46-49 S '64.  
(MIRA 18:4)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut ukha, gorla i nosa  
Ministerstva zdravookhraneniya RSFSR.

SAGALOVICH, B.M.; MELKUMOVA, G.G.; GAFUROV, R.A.

Changes in the barrier function of the inflammation focus  
following sensitization and local cooling. Biul.eksp.biol.i  
med. 58 no.10:27-30 O '64. (MIRA 18:12)

1. Patofiziologicheskaya laboratoriya (zav. - prof. B.M.  
Sagalovich) Nauchno-issledovatel'skogo instituta ukha, gorla  
i nosa (dir. - prof. N.A.Bobrovskiy) Ministerstva zdravookh-  
raneniya RSFSR, Moskva. Submitted July 23, 1963.

L 31219-66

ACC NR: AP6022787

SOURCE CODE: UR/0217/66/011/001/0156/0163  
51  
8

AUTHOR: Sagalovich, B. M.; Melkumova, G. G.

ORG: State Scientific Research Institute of Otolaryngology, MZ RSFSR, Moscow  
(Gosudarstvennyy nauchno-issledovatel'skiy institut ukha, gorla i nosa MZ RSFSR)TITLE: Range of ultrasound frequencies perceived by the human ear

SOURCE: Biofizika, v. 11, no. 1, 1966, 156-163

TOPIC TAGS: man, ultrasonic frequency, ultrasound, piezoelectricity, audition,  
acoustic biologic effect, bioelectric phenomenon

ABSTRACT: The threshold of perception by the human ear of ultrasound transmitted through the bones of the skull was studied on subjects 20-40 years old with normal hearing. Ultrasound was generated by means of a lead zirconate-titanate piezoelectric plate and its intensity at the surface of the generating unit was determined by means of a barium titanate plate. The results obtained indicated that the upper limit of the frequencies perceived was at least 225 kc, compared with the upper limit of 20 kc accepted in present-day physiology. Sensitivity to ultrasound decreased with increasing frequencies - thus, the intensity threshold was  $0.015 \times 10^{-6} \text{ w/cm}^2$  (81 db) at 29 kc and  $75.26 \times 10^{-6} \text{ w/cm}^2$  (115 db) at 225 kc on the average. The thresholds of ultrasound perception in all cases exceeded those of sound in the auditory range transmitted by air. The optimum ultrasound frequency

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from the standpoint of the minimum intensity producing an auditory sensation varied with the part of the head to which the piezoelectric generating element was applied. In the 29-130 kc range the most pronounced auditory sensation at 29 kc was produced when the element was applied to the region behind the ears, while the greatest sensitivity in the high-frequency range (130 kc) was observed on application to the front of the head and the sensitivity in the intermediate range (85 kc) was equal on application to both parts of the head. Orig. art. has: 2 figures, 2 tables and 3 formulas. [JPRS]

SUB CODE: 06, 20 / SUBM DATE: 14Apr65 / ORIG REF: 006 / OTH REF: 004

Card 2/2 BLG

BONDAR', Z.A.; MELKUMOVA, I.S.

Changes of serum glycoproteins in liver diseases. Terap. arkh.  
(MIRA 14:1)  
32 no. 6:47-54 Je '60.  
(LIVER—DISEASES) (GLYCOPROTEINS)

KAKHNOVSKIY, I.M.; MELKUMOVA, I.S.

Diagnostic value of the diphenylamine reaction in a series of  
internal diseases. Lab. delo 7 no.10:8-11 0 '61. (MIRA 14:10)

I. Kafedra fakul'tetskoy terapii (zav. - deystvitel'nyy chlen  
AMN SSSR prof. V.N.Vinogradov) lechebnogo fakul'teta I Moskovskogo  
ordena Lenina meditsinskogo instituta imeni I.M.Sechenova.  
(DIPHENYLAMINE)

MELKIMOVA, I.S.

Significance of determination of aminopherase in the blood  
serum in coronary insufficiency. Terap.arkh. 33 no.2:33-40  
F '61. (MIRA 14:3)

1. Iz kafedry fakul'tetskoy terapii (zav. - deystvitel'nyy chlen  
AMN SSSR prof. V.N. Vinogradov) I Moskovskogo ordena Lenina  
meditsinskogo instituta imeni I.M. Sechenova.  
(CORONARY HEART DISEASE) (TRANSAMINASE)

STRELYAYEVA, V.M.; LAPAYEVA, N.I.; MEL'KUMOVA, L.P.

Natural tularemia foci in the Turkmen S.S.R.Zdrav. Turk. 8  
no.2331-34 F'64 (MIRA 17:4)

1. Iz Turkmenskoy respublikanskoy sanitarno-epidemiologicheskoy  
stantsii (glavnnyy vrach V.Mamayev).

SHIRSHYAN, M.V.; CHTYAN, G.S.; MULKUMOVA, I.S.

Production of magnesium oxide and nitrates from dolomite.

Izv. Akad. Nauk SSSR. Khim. nauki 18 no.4:341-346 1955.

(ERIA 18:12)

1. Yerevansky gosudarstvennyy universitet, kafedra  
neorganicheskoy khimii. Submitted July 18, 1964.

ACCESSION NR: AP4033110

S/0120/64/000/002/0066/0068

AUTHOR: Akopova, A. B.; Pachadzhyan, Kh. B.; Melkumova, L. V.

TITLE: Photographic treatment of nuclear emulsions by ultrasonic radiation

SOURCE: Pribory\* i tekhnika eksperimenta, no. 2, 1964, 66-68

TOPIC TAGS: nuclear emulsion, NIKFI-R nuclear emulsion, ultrasonic nuclear emulsion, ultrasonics, spurious scattering

ABSTRACT: As a result of extensive experimentation, the optimum conditions for the ultrasonic treatment of NIKFI-R 400-micron nuclear emulsion were found. Barium titanate was used as an ultrasonic radiator at 1,100 kc, 1.25 w/cm . Developer used: amidol, 3 g; sulfite, 12 g; citric acid, 1 g; water, 1 liter; diluted by 1:2 for pH = 6.4. The time of the ultrasonic treatment proved to be only one-fifth that for the conventional photographic treatment which is explained by accelerated diffusion phenomena. The emulsion sensitivity was found to be

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ACCESSION NR: AP4033110

unaltered, but the grainy fog was lower by 20-25%, and the distortion was considerably lower. "The authors deeply thank V. M. Kharitonov for his interest in the work, and N. A. Marutyan for his valuable advice during a discussion of the physical results." Orig. art. has: 2 figures and 3 tables.

ASSOCIATION: none

SUBMITTED: 13May63

DATE ACQ: 11May64

ENCL: 00

SUB CODE: NS

NO REF SOV: 003

OTHER: 001

Card 2/2

MEL'KUMOVA, M.A.

Case of excretion of dysent-ry bacteria in chronic aigiocholocystitis.  
Zhur.mikrobiol., epid. i immun. 42 no.2:65-68 F '65.

(MIRA 18:6)

1. Tambovskaya gorodskaya infektsionnaya bol'nitsa.

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20102-65 EXT(m)/EPF(c)/T Pr-4 DJ/ME  
S/2982/64/000/051/0199/0206  
MISSION ID: AT5006944

AUTHOR: Gurevich, I. L.; Smidovich, Ye. V.; Barinov, V. Ye.; L'vova, A. I.;  
Kiselev, B. D.; Mukharemov, A. N.; Melkumova, N. A.; Shcherbakova,  
V. A.

TITLE: An efficient process for the complex refining of Turkmen petroleum //✓ 29  
SOURCE: Moscow. Institut neftekhimicheskoy i gazovoy promyshlennosti. Trudy, no.  
51, 1975. Neftekhimiya, neftekhimicheskiye protsessy i neftepererabotka (Petroleum  
and oil chemical processes and oil refining), 199-206  
Process: complex refining, deasphalting, mazout, catalytic cracking, deparaf-  
fining, hydrodesulfurization, etc.

The process consists of the deasphalting of mazout and residues from petroleum  
and the subsequent catalytic cracking. The main feature of the proposed complex  
refining process is the use at the Krasnovodsk refinery of the  
deasphalting method of the deasphalting unit. The new  
method of deasphalting is based on the use of the deasphalting unit for the removal  
of asphaltene by adsorption with the help of paraffins and waxes.  
The residue of the deasphalting can produce high-grade residual oil. //✓ 29  
Process: complex refining, deasphalting, mazout, catalytic cracking, deparaf-  
fining, hydrodesulfurization, etc.

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Racial differences of nodule bacteria isolated from different  
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(ALFALFA)

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MEL'KUMOVA, T.A.

Flagella of alfalfa nodule bacteria [with summary in English].  
Mikrobiologija, 26 no.3:313-314 My-Je '57. (MIRA 10:10)

1. Institut mikrobiologii AN SSSR, Moskva.  
(MICRO-ORGANISMS, NITROGEN-FIZING)  
(ALFALFA)

MELKUMOVA, T.A.

Distribution of Azotobacter in soils of the Karabakh Steppe.  
Izv. AN Azerb. SSR. Ser. biol. i med. nauk no.8:87-91'61.  
(MIRA 16:8)

(KARABAKH STEPPE—AZOTOBACTER)

MELKUMOVA, T.A.

Microflora of some soil types in the Karabakh Steppe. Izv. AM Azerb.  
SSR.Ser. biol. i med.nauk no.9:71-78 '61. (MIA 14:12)  
(KARABAKH STEPPE—SOILS—MICRO-ORGANISMS)

MELKUMOVA, T.A.

Occurrence of tubercle bacteria in cotton-alfalfa rotation  
on irrigated soils of the Kura-Araz Lowland. Izv. AN Azerb.  
SSR. Ser. biol. i med. nauk no.11:91-95 '61. (MIRA 15:3)  
(KURA LOWLAND—MICRO-ORGANISMS, NITROGEN-FIXING)

MELKUMOVA, T.A.

Effect of antibiotics on the activity and virulence of the nodule  
bacteria of alfalfa. Izv. AN SSSR. Ser. biol. 27 no.1:117-121  
Ja-F '62. (MIRA 15:3)

1. Institute of Soil Sciences and Agrochemistry, Baku.  
(ALFALFA)  
(PHYSIOLOGICAL EFFECT)  
(MICRO-ORGANISMS, NITROGEN-FIXING)

KRASIL'NIKOV, N.A.; MELKUMOVA, T.A.

Variability of nodule bacteria inside the nodules of leguminous plants. Izv. AN SSSR Ser. biol. 28 no.5:693-706 S-0'63  
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1. Institute of Microbiology, Academy of Sciences of the U.S.S.R.,  
Moscow.

MELKUMOVA, T.M.; GAZAICHYAN, Zh.M.

Effect of microelements on the activity and virulence of alfalfa nodule bacteria. Dokl. AN Azerb. SSR 20 no.2:53-57 '64.

(MIRA 17:6)

1. Institut pochvovedeniya i agrokhimii AN AzerSSR. Predstavлено akademikom AN AzerSSR G.A.Aliyevym.

MELKUMYAN, A.A.

Rare case of myxofibroma of the labium majus. Akush. i gin. 32 no.1:  
82 Ja-F '56 (MIRA 9:6)

1. Iz ginekologicheskogo otdeleniya "Sentral'noy klinicheskoy  
bol'nitsy (nachal'nik V.N. Zakharchenko) Ministerstva putey  
soobshcheniya.  
(VAGINA--TUMORS)

MELKUNYAN, B.G., podpolkovnik med. sluzhby

Utilization of camp tents for setting up of a division medical center. Voen. med. zhur no.3:77-78 Mr '58. (MIRA 12:7)

(MEDICINE, MILITARY AND NAVAL

utilization of camp tents for develop. of Divisional Med. Center (Rus))

MELKUMYAN, B.G., podpolkovnik meditsinskoy sluzhby; LAVRENT'YEV, K.I.,  
kapitan meditsinskoy sluzhby

Experience in the prevention of colds in military personnel.  
Voen.-med.zhur. no.3:74-75 Mr '61. (MIRA 14:7)  
(COLD (DISEASE))

MELKUMYAN, B.G. (Tbilisi)

State of mining in Armenia after 1917 until the establishment  
of the Soviet regime, 1917-1920. Izv. AN Arm. SSR Nauki o  
zem. 18 no.3/4:148-151 '65. (MIRA 16:9)

OGANESYAN, A.G., kand.tekhn.nauk; KALANTARYAN, L.K., inzh.; SARKISYAN, A.M.,  
inzh.; BABELYAN, S.M.; MELKUMYAN, D.A., tekhnik

Synthesis of new rubberlike copolymers. Sbor. nauch. trud. ErPI  
no. 20:215-234 '59. (MIRA 14:5)  
(Polymers—Synthesis) (Rubber, Synthetic)

MELKUMYAN, G.

Prospects for the development of the construction industry in  
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1. Zamestitel' predsedatelya Gosudarstvennogo komiteta Soveta  
Ministrov Armyanskoy SSR po delam stroitel'stva i arkhitektury.  
(Armenia--Construction industry)

MELKUMYAN, G.

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Armenian S.S.R. Prom.Arm. 5 no.6:9-12 Je '62. (MIRA 15:7)

1. Zamestitel' predsedatelyya Gosudarstvennogo komiteta Soveta Mi-  
nistrov Armyanskoy SSR po delam stroitel'stva.  
(Armenia—Construction industry)

MEIKUMYAN, G.B. I. KHANIAROVA, A.C.

42468. Dinamika Nekorleniya sunny alkaloidov V Anabasis Arhylla I.  
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Azerbaydzh Yaz.--Pitlogr: B Nezu.

MELKUMYAN, G. B.

Melkumyan, G. B. and Shchipanova, I. A. - "Regional distribution and quantities of Anabasis aphylla in Azerbaijan", Izvestiya Akad. nauk Azerbaijan SSR, 1942, No. 10, p. 57-64, (Resume in Azerbaijani), - Bibliog: 15 items.

SO: U-3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 8, 1949).

MELKUMYAN, G.G., red.; MARTIROSYAN, G.M., red.; MARUNOV, P.M., red.;  
CHANCHAPANYAN, E., tekhn. red.

[Agriculture in the Armenian S.S.R.; statistical manual] Sel'skoe khoziaistvo Armianskoi SSR; statisticheskii sbornik. Pod red. G.G.Melkumiana. Erevan, 1961. 483 p. (MIRA 15:1)

1. Russia (1923- U.S.S.R.)TSentral'noye statisticheskoye upravleniye. 2. Nachal'nik otdela statistiki sel'skogo khozyaystva TSentral'nogo statisticheskogo upravleniya Armyanskoy SSR (for Melkumyan). 3. Nachal'nik TSentral'nogo statisticheskogo upravleniya Armyanskoy SSR (for Martirosyan).

(Armenia—Agriculture—Statistics)

MARTIROSYAN, G.M.; MANVELYAN, A.P.; TERLEMEZYAN, G.Ye.; MELKUMYAN, G.G.; AGAMIRYAN, G.Y.; TARDZHIMANOV, R.O.; GUKASIAN, V.M.; POGOSYAN, M.P.; MARUKHYAN, A.O.; MARUNOV, P.M., red.; SAROYAN, P., tekhn.red.; MATINYAN, A.A., tekhn.red.

[Forty years of Soviet Armenia; a statistical manual] Sovetskaia Armenia za 40 let; statisticheskii sbornik. Erevan, Armianskoe gos.izd-vo, 1960. 209 p. (MIRA 14:4)

1. Armenian S.S.R. Statisticheskoye upravleniye. 2. Nachal'nik TSentral'nogo statisticheskogo upravleniya pri Sovete Ministrov Armyanskoy SSR (for Martirosyan).
3. Zamestitel' nachal'nika TSentral'nogo statisticheskogo upravleniya pri Sovete Ministrov Armyanskoy SSR (for Manvelyan).
4. TSentral'noye statisticheskoye upravleniye pri Sovete Ministrov Armyanskoy SSR (for Terlemezyan, Melkumyan, Agamiryan, Tardzhimanov, Gukasian, Pogosyan, Marukhyan).
5. Nachal'nik otdela statistiki svodnykh rabot TSentral'nogo statisticheskogo upravleniya pri Sovete Ministrov Armyanskoy SSR (for Marunov).

(Armenia--Statistics)

MELKUMYAN, G.O.

Effect of spring field cultivation work on the productivity of alfalfa grown for seed. Izv. AM Arm. SSR. Biol. i sel'khoz. nauki. 4 no. 11:1005-1011 '51. (MIRA 9:8)

1. Armyanskij nauchno-issledovatel'skiy institut tekhnicheskikh kul'tur Ministerstva khlopkovedstva SSSR.  
(ARMENIA--ALFALFA)

USSR/Cultivated Plants. Grains.

M

Abs Jour: Ref Zhur-Biol., No 5, 1958, 20267.

Author : G.K. Grigoryan, G.O. Melkumyan, A.K. Markaryan.

Inst : Not given.

Title : The Variety Testing of Corn in Armenia. (0 sortoispytaniya kukuruzy v usloviyakh Armenii).

Orig Pub: Izv. AN Arm SSR, biol. i s.-kh. n., 1956, 9, No 10, 53-65.

Abstract: Resulting from corn-variety testing (1956) in various zones of the Armenian SSR, greater productivity during the milky-waxy ripeness stage was witnessed in the Shirakskaya plain, Loriyskaya steppe and Sevan basin in the post-ripening Krug-Groznenskiy variety, and in the north eastern part of the republic, in the Sterling and VIR-42 hybrid post-ripening varieties. The VIR-42 hybrid distinguished itself in grain yield in all of

Card : 1/3

USSR/Cultivated Plants. Grains.

M

Abs Jour: Ref Zhur-Biol., No 5, 1958, 20267.

per hectare of green stuff. At full ripeness the yield of cobs in their husks with the green stuff amounted to 58-65 centners per hectare, and the stalks with leaves to 220-235 centners per hectare.

Card : 3/3

MELKUMYAN, G.O.

Effect of the harvesting time of the first alfalfa crop on the seed yield of the second crop. Izv.AN Arm.SSR.Biol.i sel'khoz.nauki. 5 no.5:83-87 '52. (MLRA 9:8)

1. Institut tekhnicheskikh kul'tur Ministerstva khlopkovodstva SSSR.  
(ARMENIA--ALFALFA)

GRIGORYAN, G.K.; MELKUMYAN, G.O.; MARKARYAN, A.K.

Corn variet' test in Armenia. Izv.AN Arm.SSR.Biol. i sel'khoz.  
nauki 9 no.10:53-64 '56. (MLRA 9:12)

1. Gosudarstvennaya komissiya po sortoispytaniyu sel'skokhozyayst-  
vennykh kul'tur po Armyanskoy SSR.  
(Armenia--Corn(Maize)--Varieties)

MELAKUNYAN, I. S.

Tannin content of oaks in Armenia. Izv.AN Arm.SSR.Biol.i sel'khoz.  
nauki 6 no.8:81-86 '53. (MLRA 9:8)

1. Botanicheskiy institut AN Arm. SSR.  
(Armenia--Oak) (Tannins)

*MELKUMYAN Z.S.*  
MELKUMYAN, I.S.

Bactericidal properties of plants of the Armenian flora. Izv. AM  
Arm. SSR. Biol. i sel'khoz. nauki 11 no.1:27-35 Ja '58. (MIRA 11:2)

1. Botanicheskiy institut AM ArmSSR.  
(ARMENIA-BOTANY, MEDICAL) (ANTIBIOTICS)

MELKUMYAN, I.S.; KHURSHUDYAN, P.A.

Some biochemical data on the leaves of laurel cultivated in  
Armenia. Izv. Akad. Nauk Arm. SSR. Biol. nauki 12 no.2:77-81 F '59.  
(MIRA 12:9)

1. Botanicheskiy institut Akademii nauk ArmSSR.  
(ARMENIA--LAUREL) (ESSENCES AND ESSENTIAL OILS)

ZOLOTNITSKAYA, S.Ya.; MELKUMYAN, I.S.; VOSKANYAN, V.Ye.

Antimicrobic activity of some alkaloid-bearing plants of  
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(MIRA 16:2)

1. Botanicheskiy institut AN Armyanskoy SSR.  
(ARMENIA—BOTANY, MEDICAL) (ALKALOIDS)

ZOLOTNITSKAYA, S.Ya.; AKOPYAN, G.O.; MELKUMYAN, I.S.; MURADYAN, A.A.

New plants, producents of alkaloids with troponine ring, from  
the flora of Armenia. Dokl. AN Arm. SSR 4:164-173 '65.  
(MIRA 18:11)

1. Botanicheskiy institut AN ArmSSR. Submitted April 10, 1965.

MELKUMYAN, I.S.

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1. Botanicheskiy institut AN Armyanskoy SSR.

GLAGOLEV, V., kand. fil. nauk, dots.; MELKUMYAN, M.I., red.

[Dialectical materialism and certain problems of contemporary physics] Dialekticheskij materializm i nekotorye voprosy sovremennoi fiziki. [n.p.] Nosvuzizdat, 1963. 44 p. (MIR 17:7)

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[Philosophy and contemporary natural science] Filosofija i  
sovremennoe estestvoznanie. Petrozavodsk, Vysshajaia shkola,  
1964. 248 p. (MIRA 17:5)

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\*(Dissertation for Degrees in Science and Engineering Defended at USSR Higher  
Educational Institutions.) Yerevan State Medical Inst, Chair of Microbiology,  
Yerevan. 1955

SO:Knizhnaya Letopis' No. 25, 18 Jun 55

\* For Degree of Candidate in Medical Sciences

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✓ The influence of small doses of phenamides on the activity of immunized serum. M. O. Melikumyan (Med. Inst. Erevan), Izvest. Akad. Nauk Armenia S.S.R., Biol. Sel'skokhoz. Nauki 8, No. 6, 95-100 (1955) (in Russian; Armenian summary).—Addas. of 0.5-2.5 mg./kg. wt. of rabbits increased the agglutination titer of their serum.

J. S. Joffe

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immunized animals. Zhur.mikrobiol.epid. i immun. 27 no.5:53-54  
My '56. (MLRA 9:8)  
(PHENETHYLAMINE) (AGGLUTINATION)

MELKUMYAN, M.O.

MIKAYELYAN, V.G.; MELKUMYAN, M.O.; FRANGULYAN, L.A.

Resistance of *Shigella* to norsulfazone and synthomycin. Zbir.  
mikrbibl.epid. i immun. 28 no.8:56-60 Ag '57. (MIRA 11:2)

1. Iz kafedry mikrobiologii Yerevanskogo meditsinskogo instituta.  
(*SHIGELLA DYSENTERIAE*, effect of durgs on,  
chloramphenicol & sulfathiazole, resist. (Rus))  
(*CHLORAMPHENICOL*, effects,  
on *Shigella dysenteriae*, resist. (Rus))  
(*SULFATHIAZOLE*, effects,  
same)

MIKAELYAN, V.G., prof.; MELKUMYAN, M.O., kand.med.nauk

Drug resistance of local strains of Flexner dysentery bacteria in recent years and their immunogenic characteristics. Trudy Erev.med. inst. no.11:151-155 '60. (MIRA 15:11)

1. Iz kafedry mikrobiologii (zav. kafedroy prof. V.G.Mikaelyan) Yerevanskogo meditsinskogo instituta.  
(SHIGELLA) (BACTERIA, EFFECT OF DRUGS ON)

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So: Knizhnaya Letopis', No. 18, 1956

MELKUMYAN, P.B.

Effect of Lactobacillus acidophilus on dysentery bacteria.  
Izv. AN Arm. SSR. Biol. nauki 14 no.3:65-70 Mr '61. (MIRA 14:3)  
(MILK, ACIDOPHILUS) (SHIGELLA DYSENTERIAE)

MELKUMYAN, P.B.

Etiological and clinical epidemiological characteristics of dysentery  
in Eriwan from 1955 to 1958. Zhur. mikrobiol. epid. i immun. 32 no.6:  
138 Je '61. (MIRA 15:5)

1. Iz Instituta epidemiologii i gigiyeny Ministerstva zdravookhraneniya  
Armyanskoy SSR.

(ERIVAN--DYSENTERY)

MIRZABEKYAN, A.O.; VANTSYAN, Ye.A.; MELKUMYAN, P.B.; TOVMASYAN, M.S.

Toxic infections caused by Salmonella brandenburg. Vop. pit.  
23 no.1:85-86 Ja-F '64. (MIRA 17:8)

1. Iz laboratorii mikrobiologii (zav. A.O. Mirzabekyan) Insti-  
tuta epidemiologii i gigiyeny Ministerstva zdravookhraneniya  
Armyanskoy SSR, Yerevan.

PAPOVYAN, G.S.; MIRZABEKYAN, A.O.; VANTSYAN, Ye.A.; KARABEKOV, B.P.;  
MKRTCHYAN, A.Ye.; MELKUMIAN, P.B.; GRIGORYAN, S.M.

Observations on botulism arising from canned Hippomarathrum  
microcarpum. Vop. pit. 24 no.1:87-88 Ja-F '65.

(MIFA 18:9)

1. Institut epidemiologii i gigiyeny Ministerstva zdravookhraneniya  
Armyanskoy SSR, Yerevan.

MELKUMYAN, P. G.

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SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

MELKUMYAN, P.G., kandidat tekhnicheskikh nauk.

Temper brittleness of low-alloy steels. Azerb.neft.khoz. 35 no.7:  
38-39 Jl '56. (MLRA 9:12)  
(Steel alloys--Brittleness)

MELKUMYAN, P.G.

Beans for flowing well equipment made from the T-48 thermocorundum.  
Azerb.neft,khoz. 38 no.4:40-42 Ap '59. (MIRA 12:7)

(Oil wells--Equipment and supplies)

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MELKUMYAN, P.G.

UMKI spanners. Azerb. neft. khoz. 38 no.9:40-41 S '59.  
(MIRA 13:2)  
(Pipe)

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MELKUMYAN, P.G.

Automatic cast elevator. Azerb. neft. khoz. 39 no.3(405):46-47  
Mr '60. (MIRA 14:9)

(Founding) (Hoisting machinery)

MELKUMYAN, S.

School of advanced practices. Prom.Arm. 5 no.8:66-68 Ag '62.  
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Sovete Ministrov SSSR.  
(Moscow--Exhibitions)

MELKUMYAN, T.A.

Operation of main canals in the irrigation systems of the Georgian  
S.S.R. in winter. Trudy GruzNIIGiM no.20:267-276 '58.  
(MIRA 15:5)  
(Georgia—Irrigation canals and flumes)

MELKUMYAN, T.A.

Sludge formation on rivers and canals of eastern Georgia.

Meteor. i gidrol. no.1:46-47 Ja '66.

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1. Gruzinskiy nauchno-issledovatel'skiy institut hidrotekhniki  
i melioratsii. Submitted April 5, 1965.

MELKUMYAN, V.

High-frequency conductance meters. Radio no.2:4 F '61.  
(MIRA 14:9)  
(Chemical engineering--Electronic equipment)

MELEKUMYAN, V.Ye., inzh.

Electric driving in mechanized tobacco-drying barns. [Kauch.trudy]  
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VIESKH 3:259-279 '58.  
(Tobacco--Drying) (Electricity in agriculture)

MELKUMYAN , V. Ye., Cand Tech Sci -- (diss) "Development and study of an electromechanized plant for drying tobacco (mechanization of drying by sun)." Tbilisi, Georgian Agricultural Inst Publishing House, 1960. 22 pp; (Ministry of Agriculture Georgian SSR, Georgian Order of Labor Red Banner Agricultural Inst); 150 copies; free; (KL, 29-60, 125)

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Photometric devices for determining the composition of the  
substance. Mekh. i avtom. proizv. 18 no.1:25-30 Ja '64.  
(MIRA 17:8)

MELKUMYANTS, I.T.

Some materials on urolithiases in children in the Armenian SSR.  
Zhur. eksp. i klin. med. 5 no.3:75-82 '65.

(MIRA 19:1)